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Deconstruction
Breguet

Tradition Tourbillon Fusée
7047

Timepiece

by

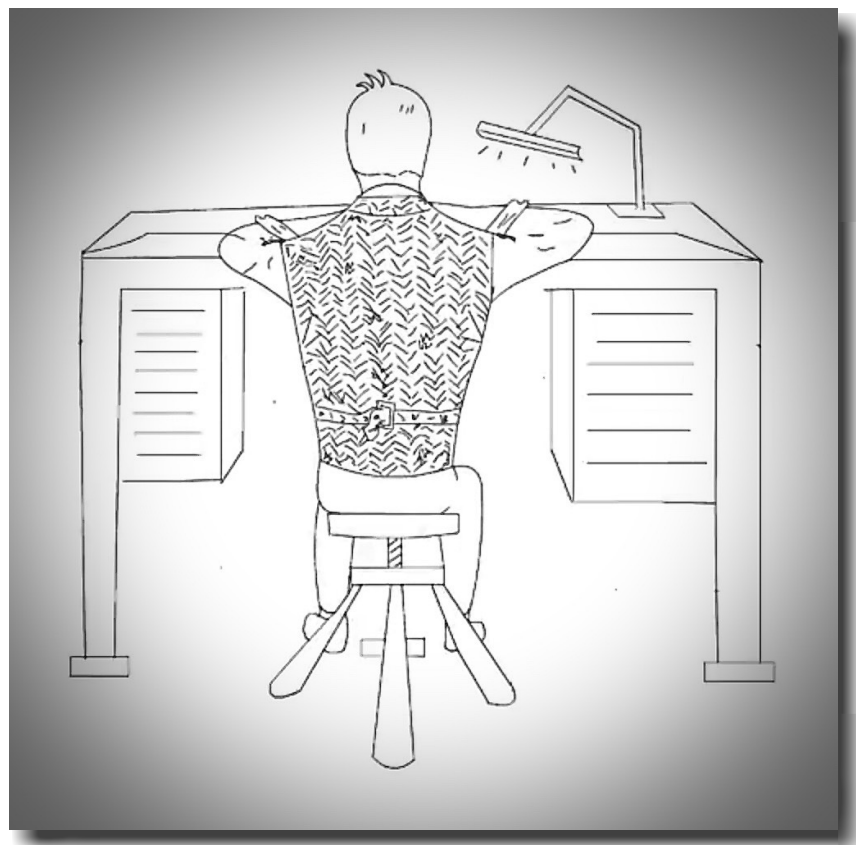
**THE NAKED
WATCHMAKER**

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The Breguet
Tradition
Tourbillon Fusée
7047





Functions

Offset minute and hour hands
with power reserve above the barrel.



Case

Platinum

Diameter 41mm

Thickness 15,95mm

Water-resistant 30m

Sapphire caseback & bezel



Launched in 2010





Each Breguet 'Tradition' watch has a unique serial number which is found both on the dial and case back, then recorded in the company archives.



For added visibility of the tourbillon cage and fusee mechanism the case is kept low and a high box crystal is used into which the tourbillon bridge and dial rise.



Movement calibre 569

Winding, manual

Power reserve, 50 hours

Jewels, 43

Frequency, 2.5Hz

Escapement, Swiss inverted straight-line lever

Balance-spring silicon, 3 piece, free-sprung overcoil



The compression case back removed. The design styling follows that of early Breguet but the colours are representative of modern horology. Mixing anthracite coloured bridges and main-plate surface finishes, with rhodium treated wheels and titanium cage and balance.





The bezel with box-sapphire removed showing the high cage bridge, dial and hands.

The large, dial size tourbillon cage mirroring the dial. Made from titanium with silicon balance spring. (The Breguet overcoil is made in silicon in three parts, the lower and upper spring joined by a small plate).



The steel arrow on the upper barrel ring pointing to the small rectangular dial indicates the level of the power reserve.



The movement removed from the case.



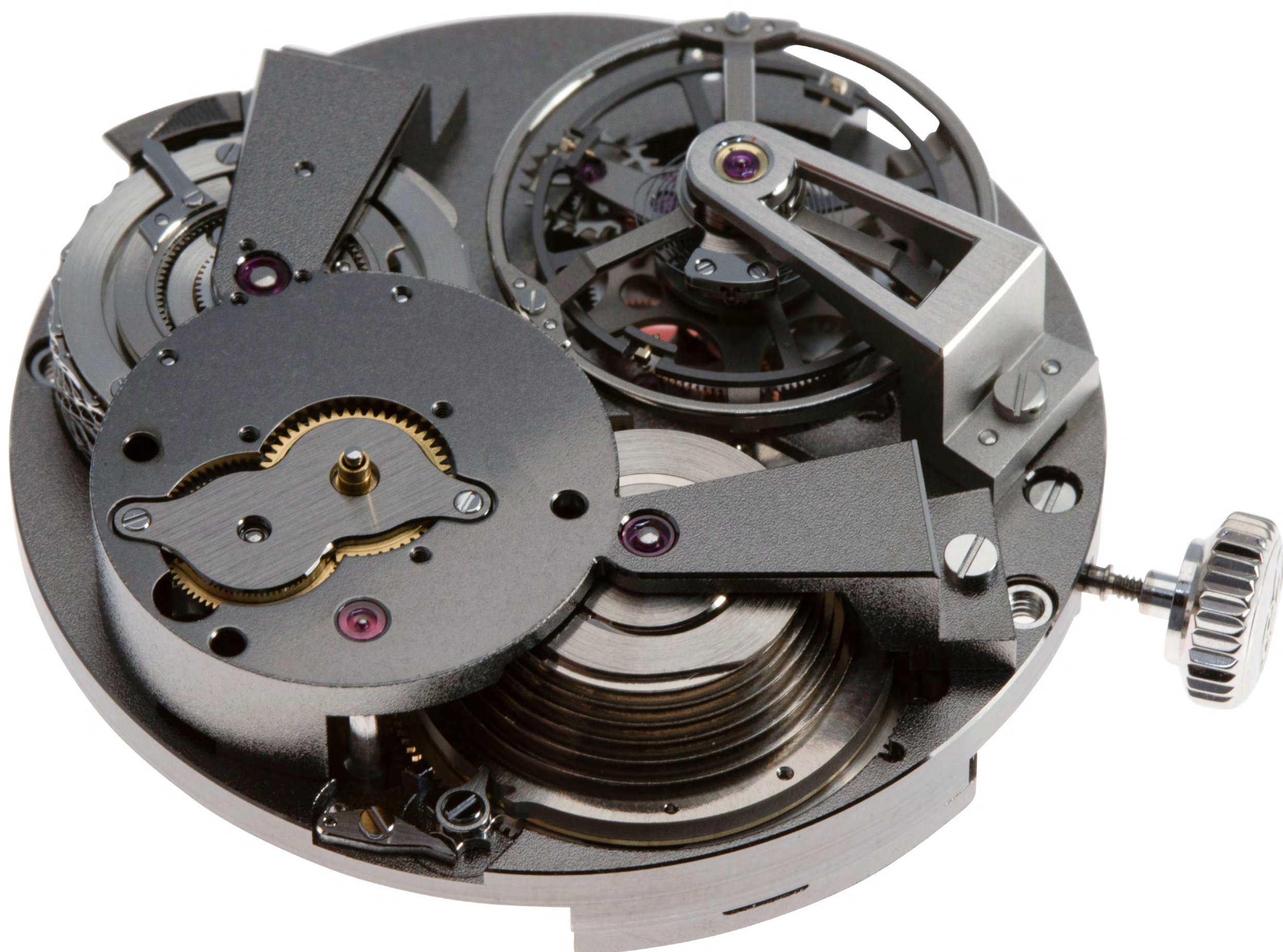
Inclined view of the movement free from the case which illustrates the volume of the calibre and the height of the bridges.



The engine turned dial prior to being associated to the case and having the archive number added.

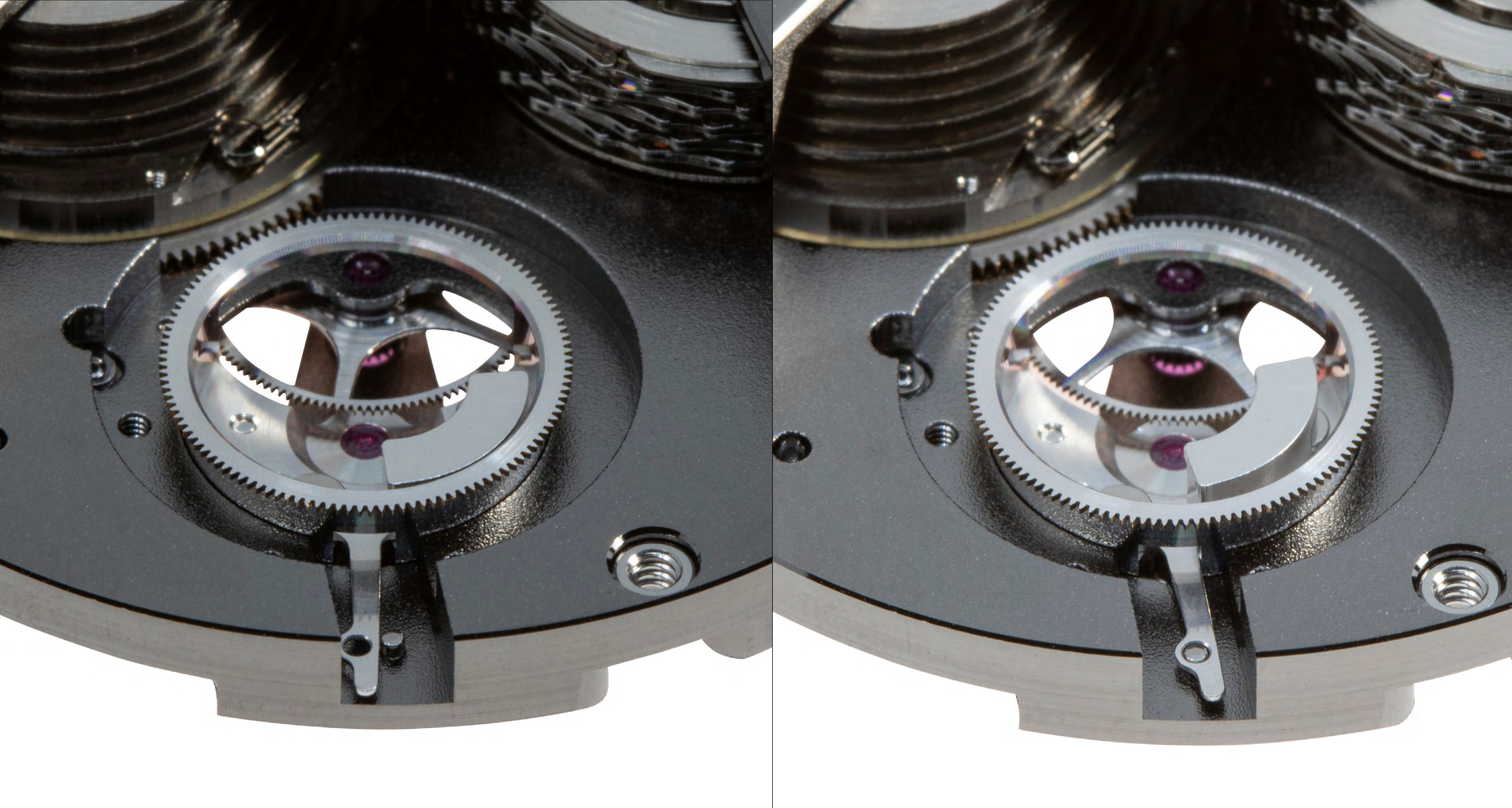


The dial removed showing the motion-work upon which the hands are driven.



The toubillon bridge removed.





The small lever shown below the fixed wheel in white rhodium is a security measure for the cage in case of a severe impact, preventing the cage from moving upwards. Once the tourbillon is assembled the lever sits on the pin. The first image shows the lever moved to the left, the position needed to remove the tourbillon.

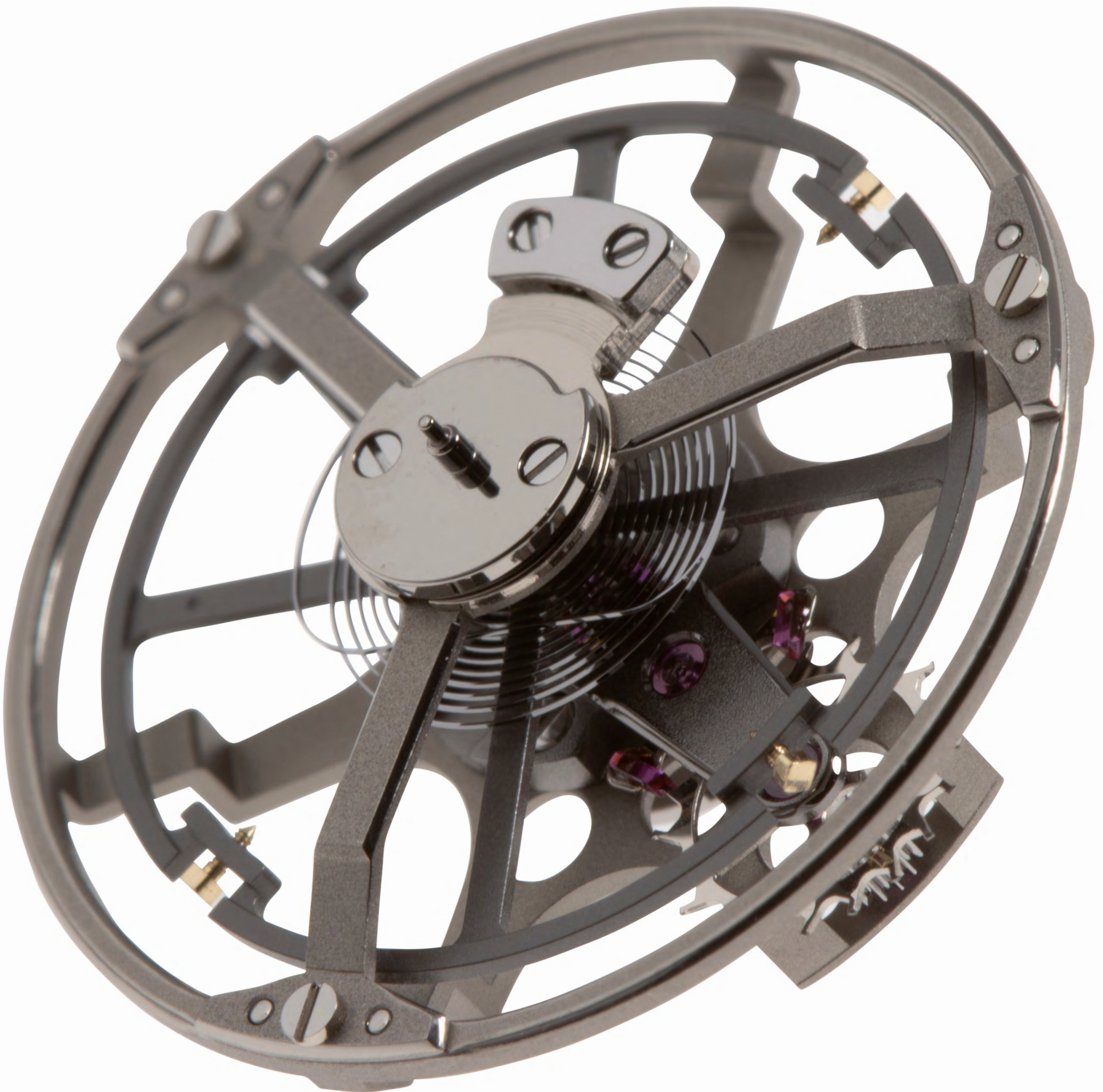
The cage tourbillon and dial removed with tension still on the fusee from the barrel.

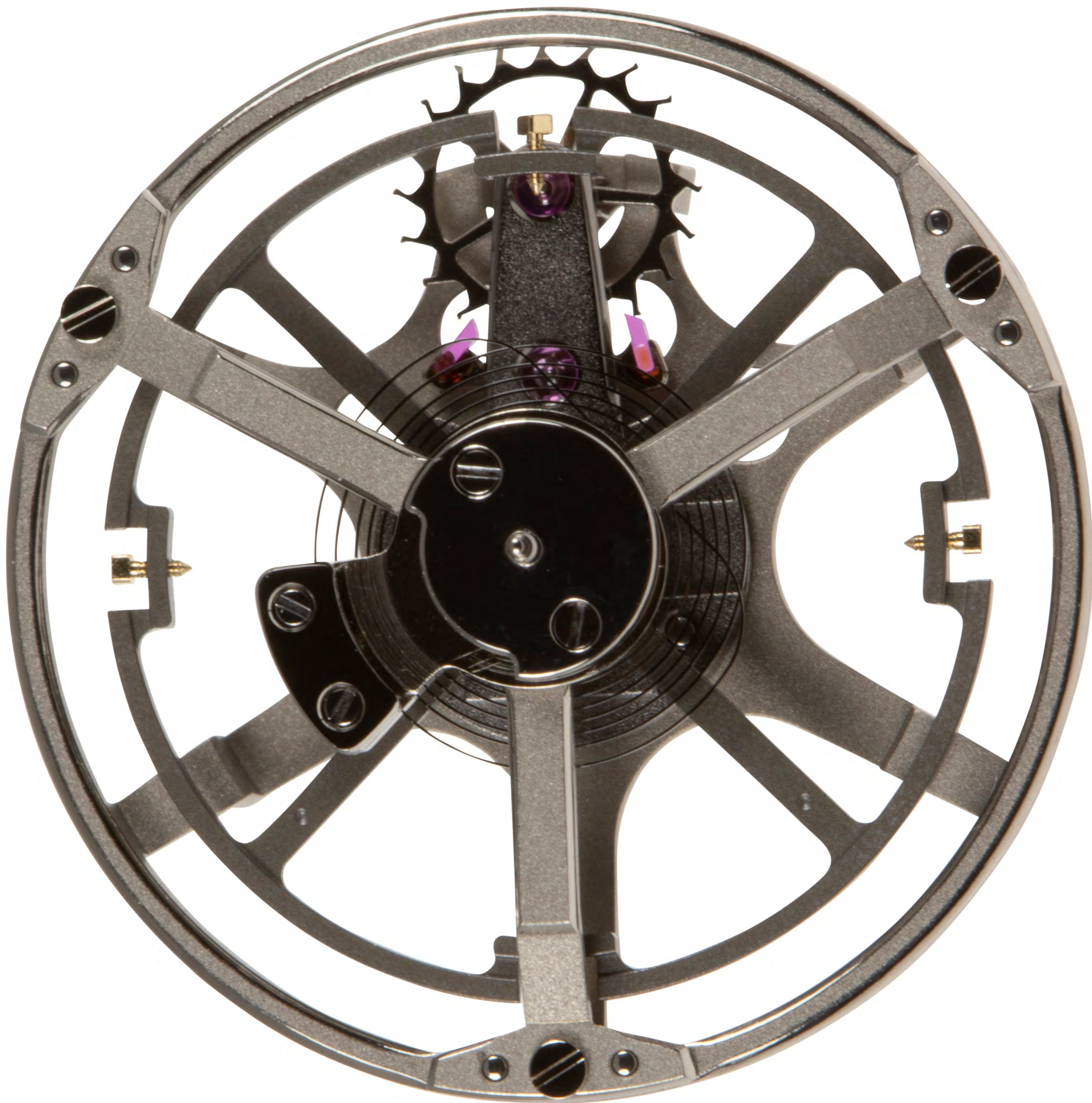


The fixed wheel which sits on the main-plate below the tourbillon, its teeth mesh with the escape wheel pinion driving the escapement and balance. The power driving the actual tourbillon comes from a wheel that enters the fixed wheel (through the cut out) driving the pinion found at the bottom of the tourbillon cage on the lower axle.

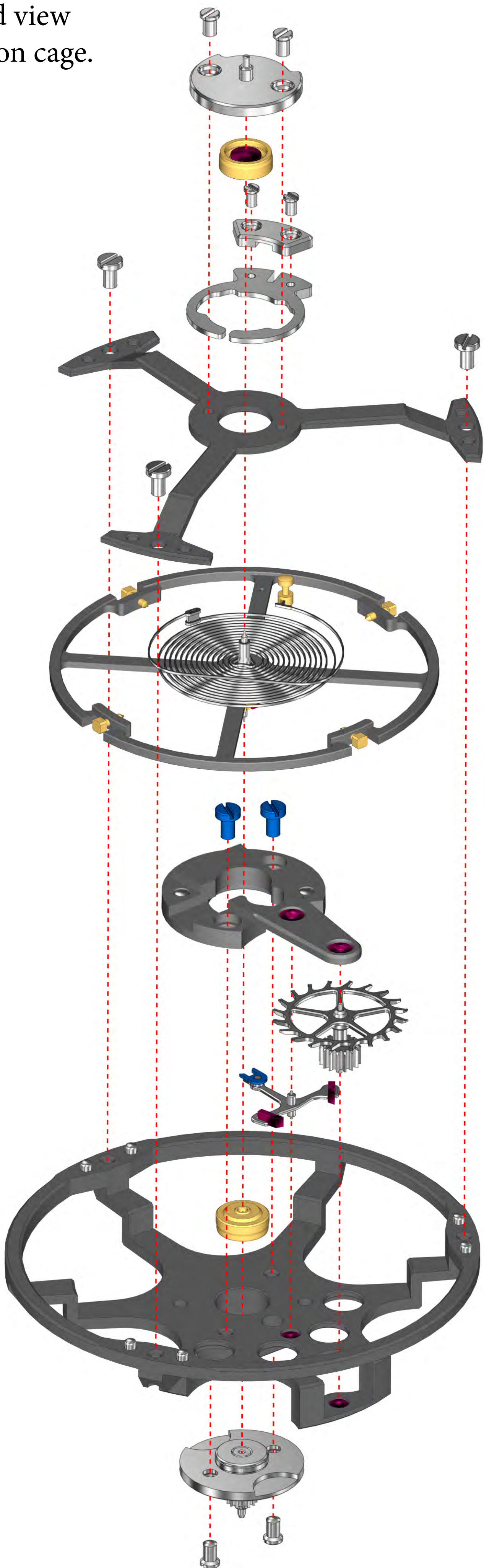


The tourbillon removed from the movement.

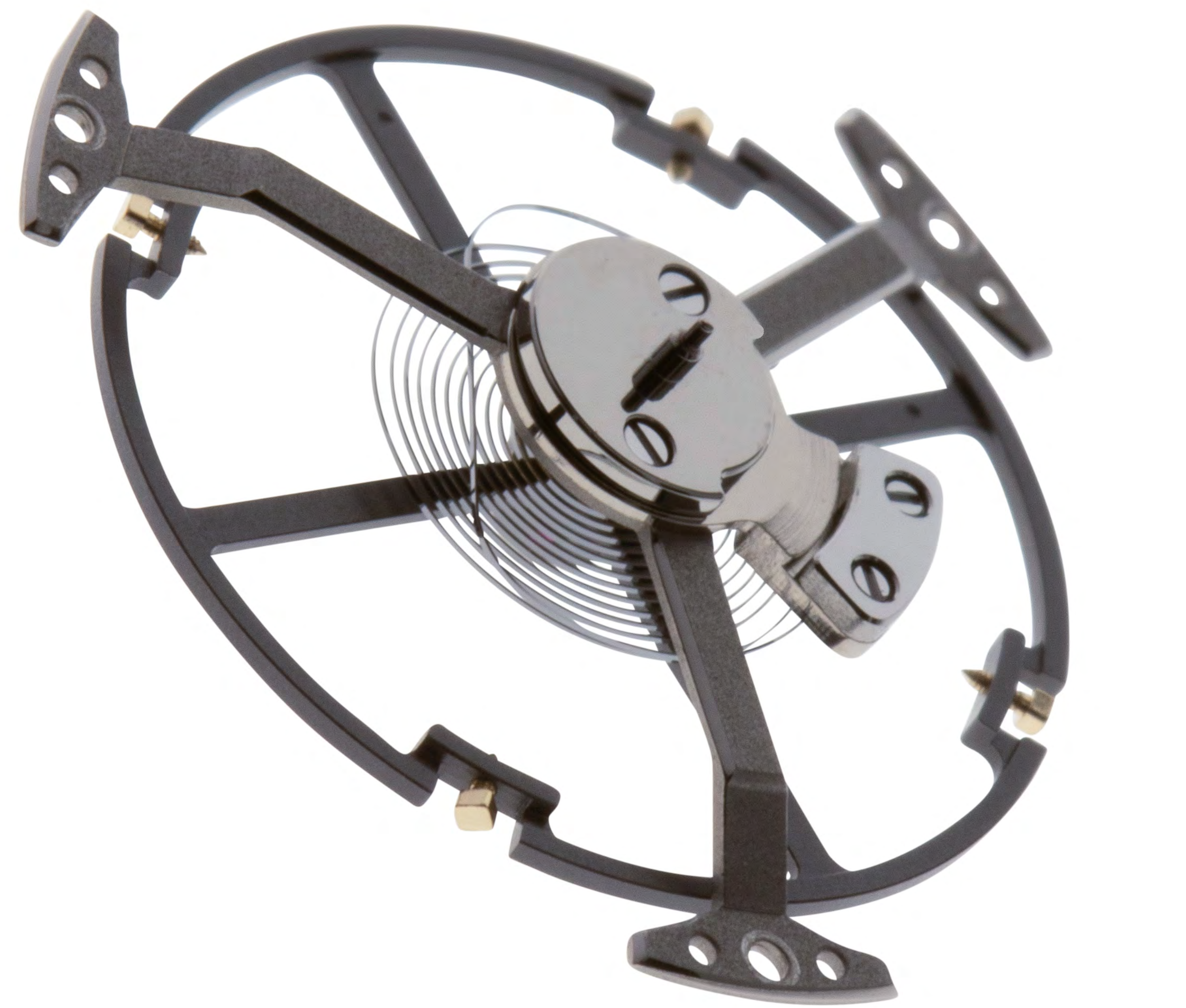
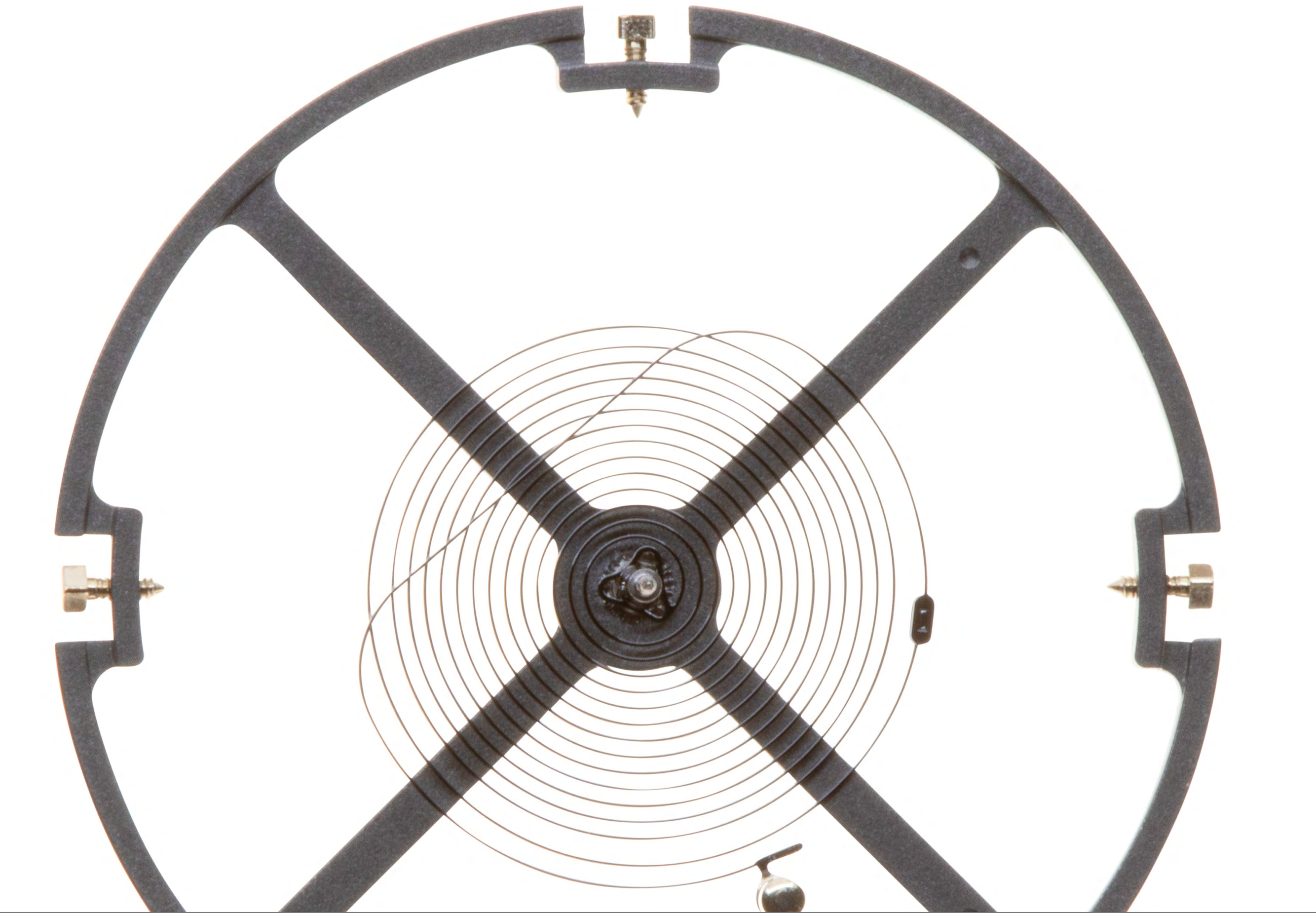




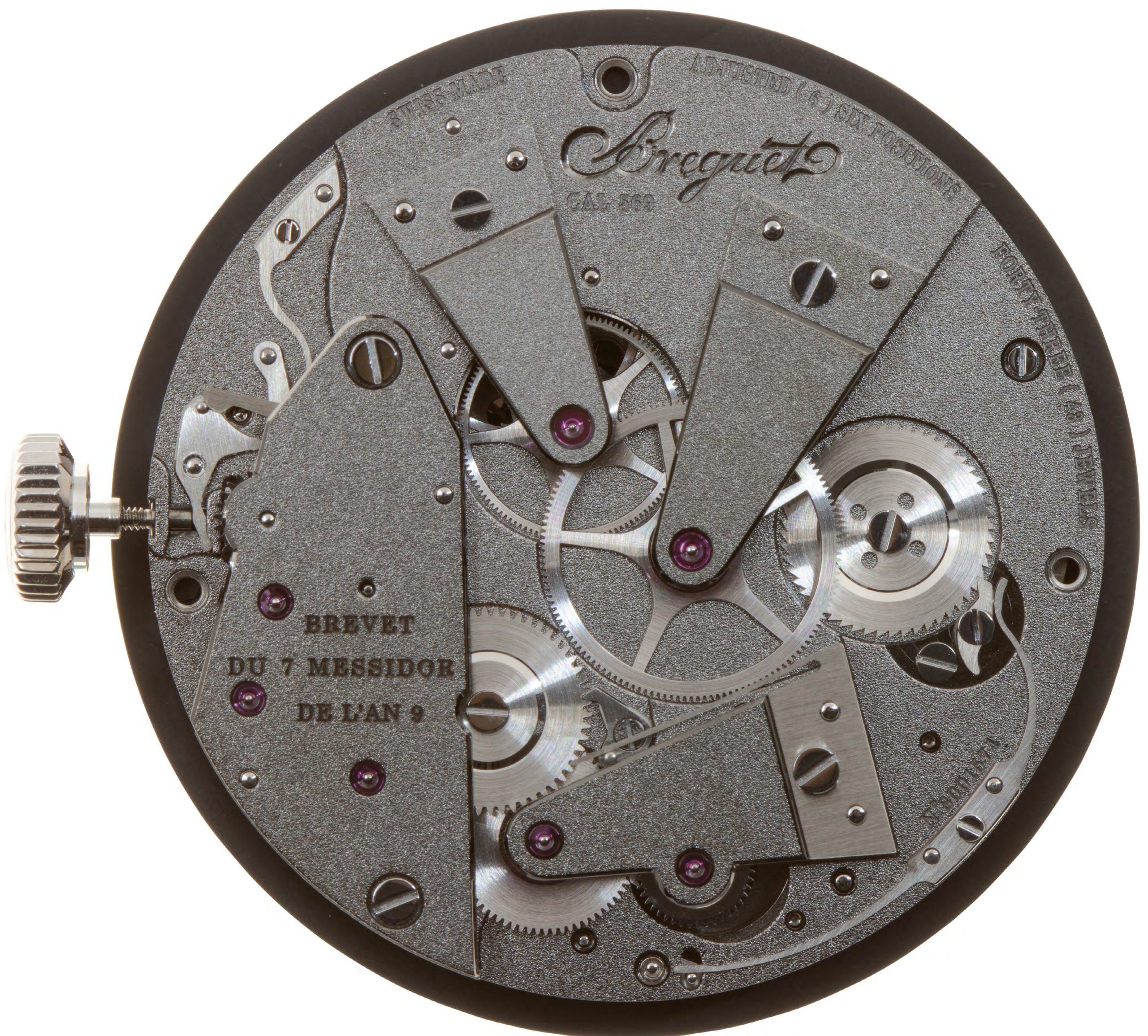
An exploded view
of the tourbillon cage.

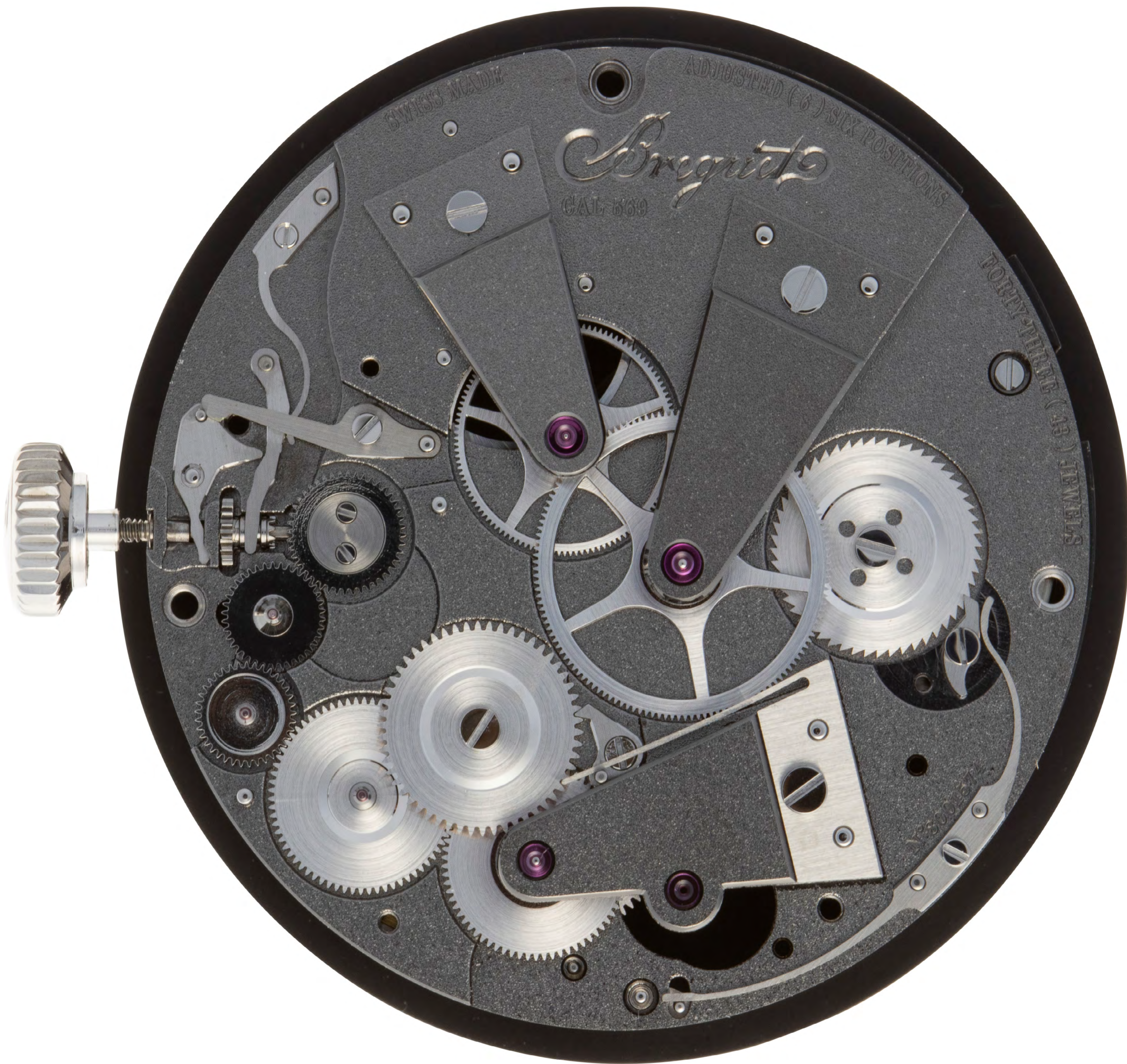






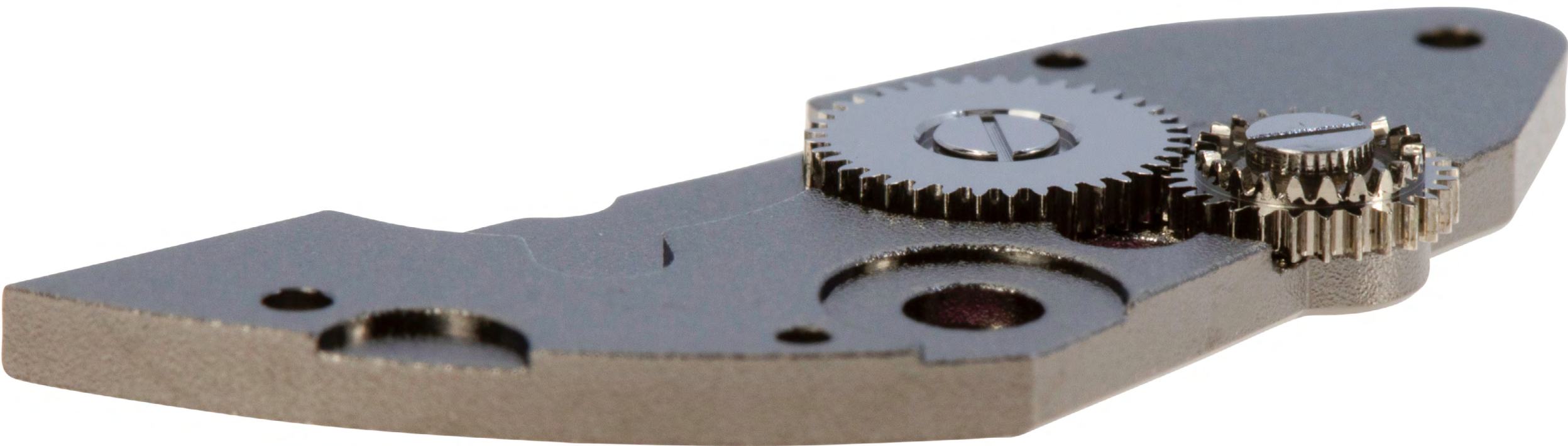
The movement sitting on a movement holder, dial down.



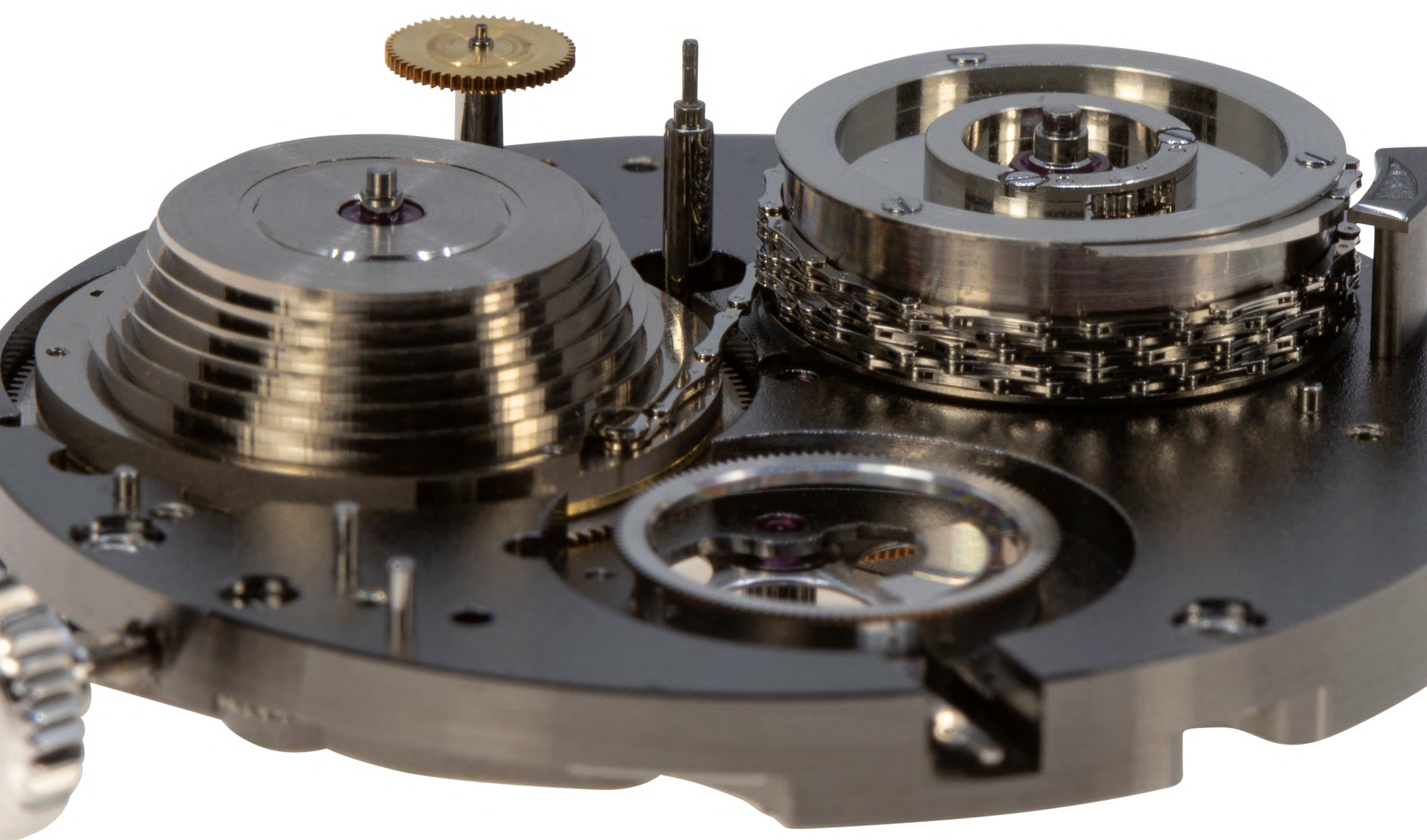


The setting/winding bridge removed,
showing the hidden gears underneath.

The setting/winding bridge with the winding pinion still screwed in place.



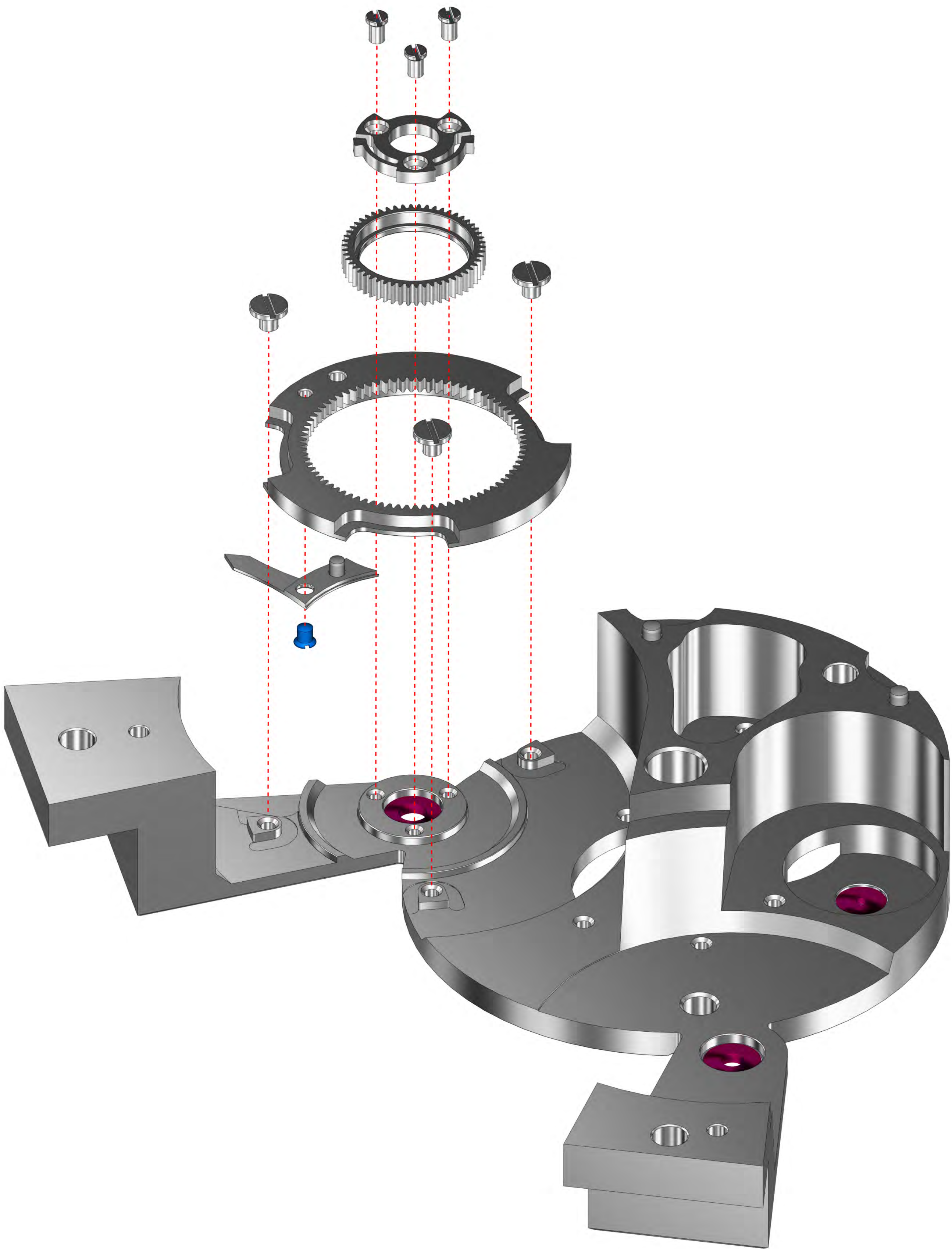
All upper bridges removed, with no
tension remaining on the fusee.

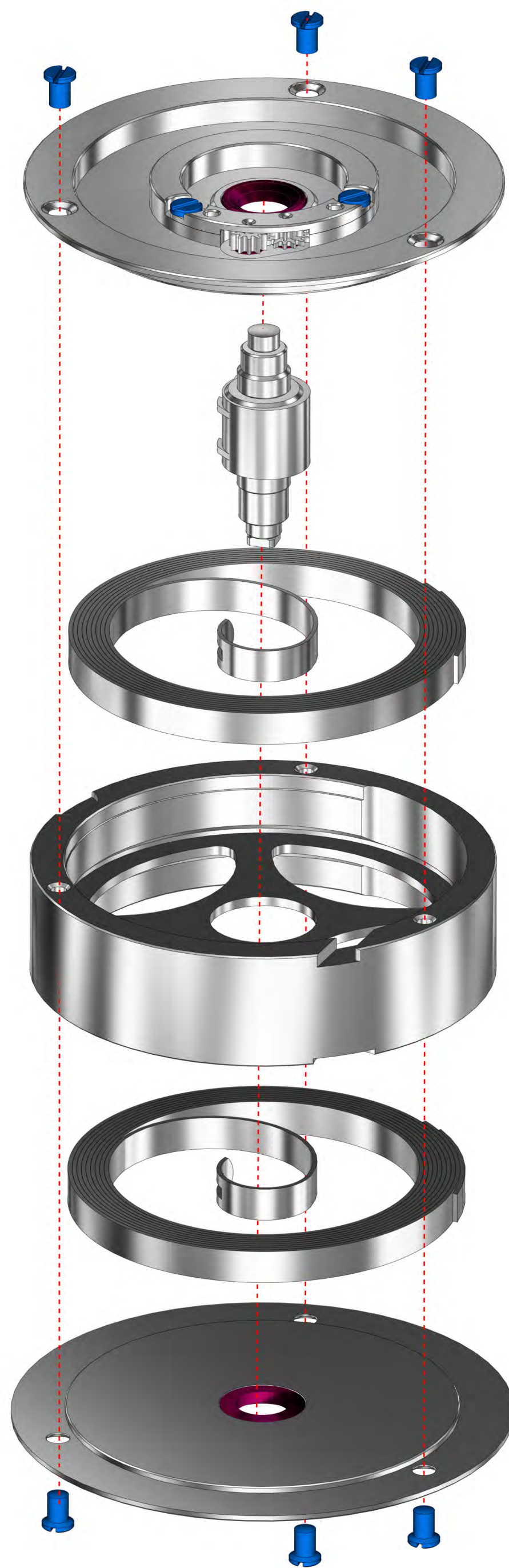


The fusee and barrel bridge which also acts as the support for the motion work and the dial, including part of the power reserve mechanism.

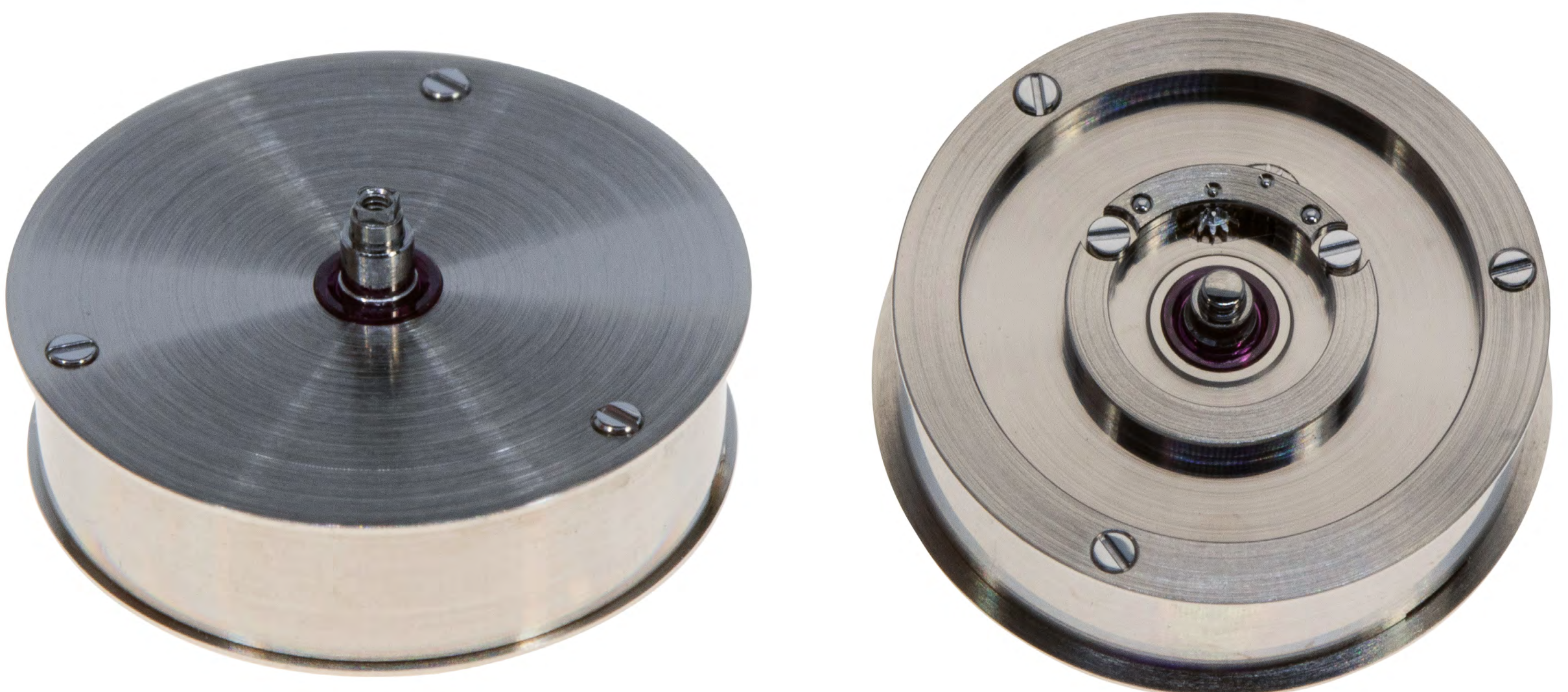


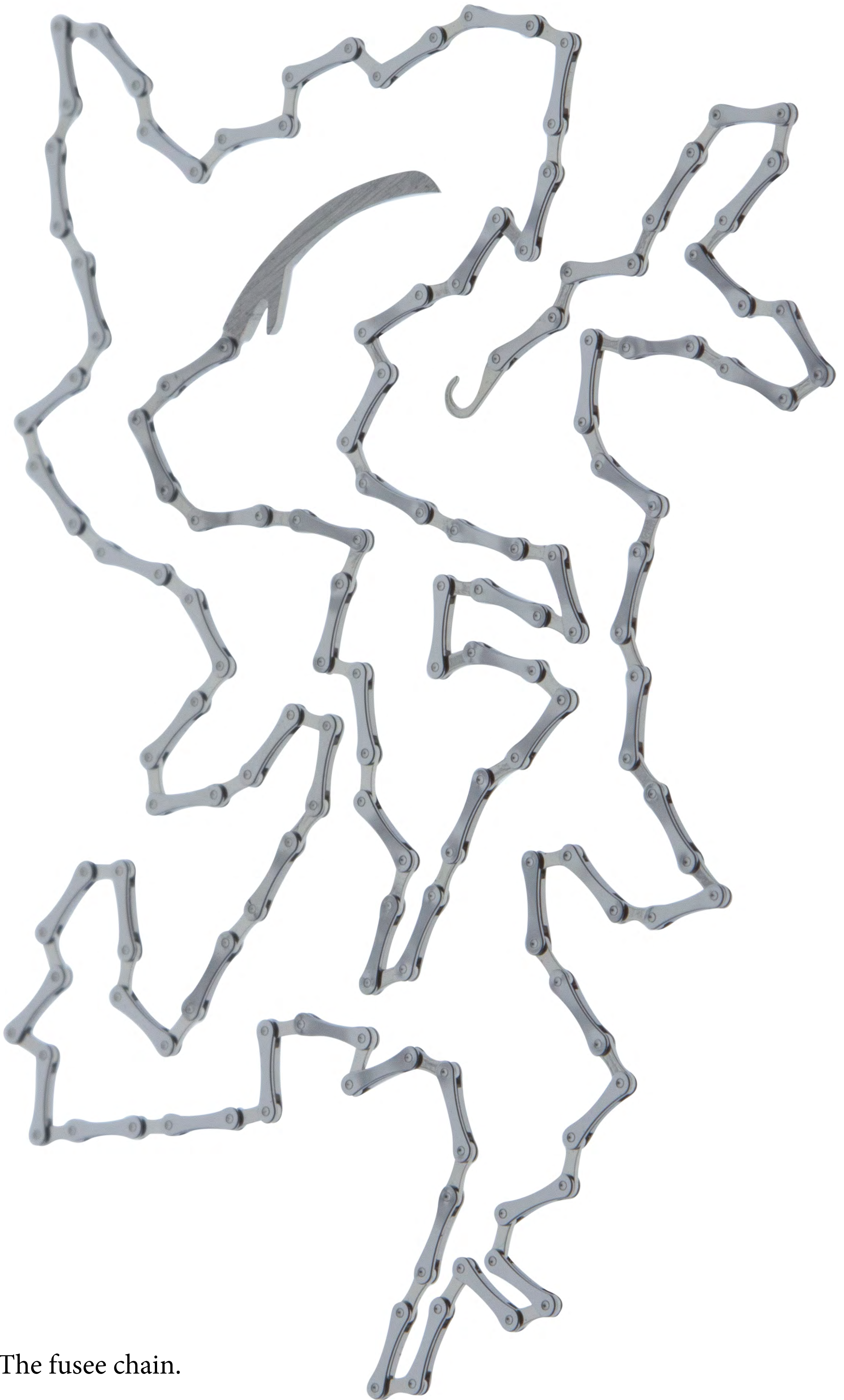
An exploded view of the barrel bridge assembly.





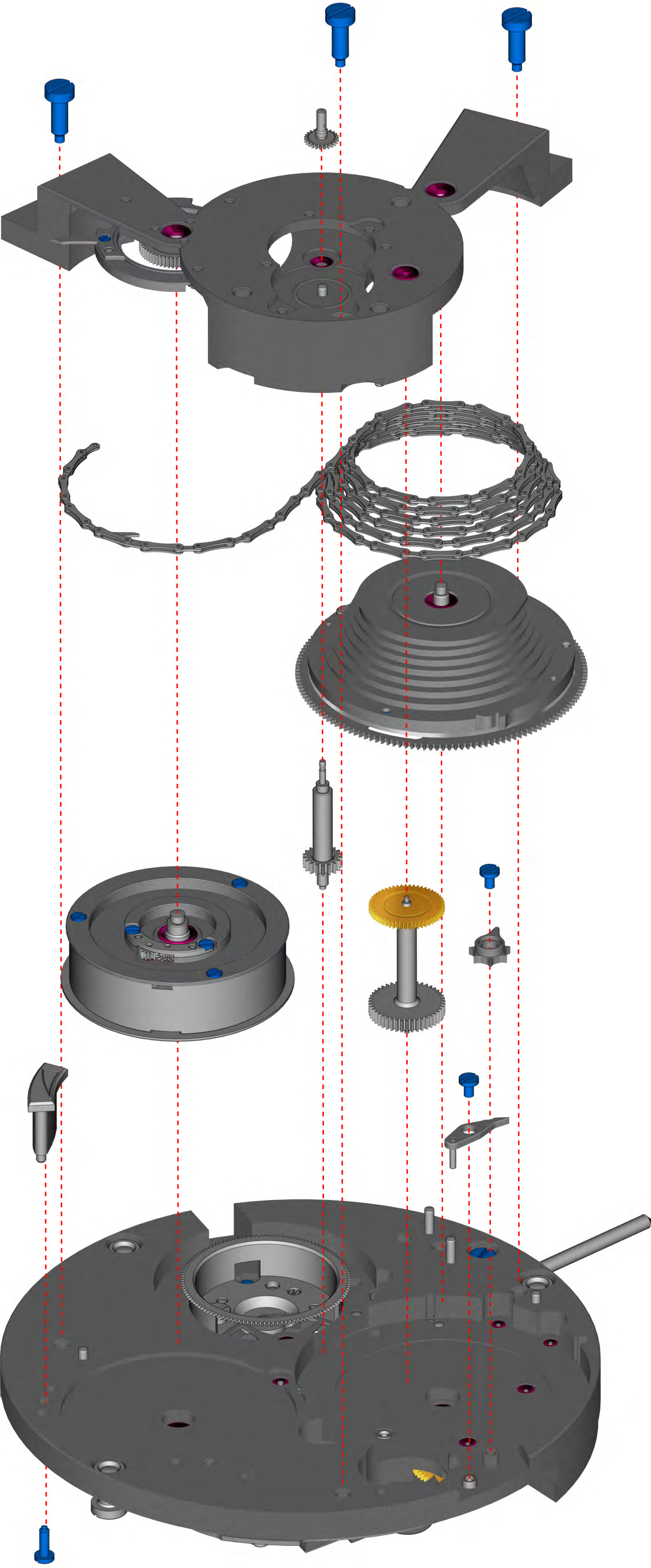
An exploded
view of
the barrel
showing
the two
mainsprings
inside.

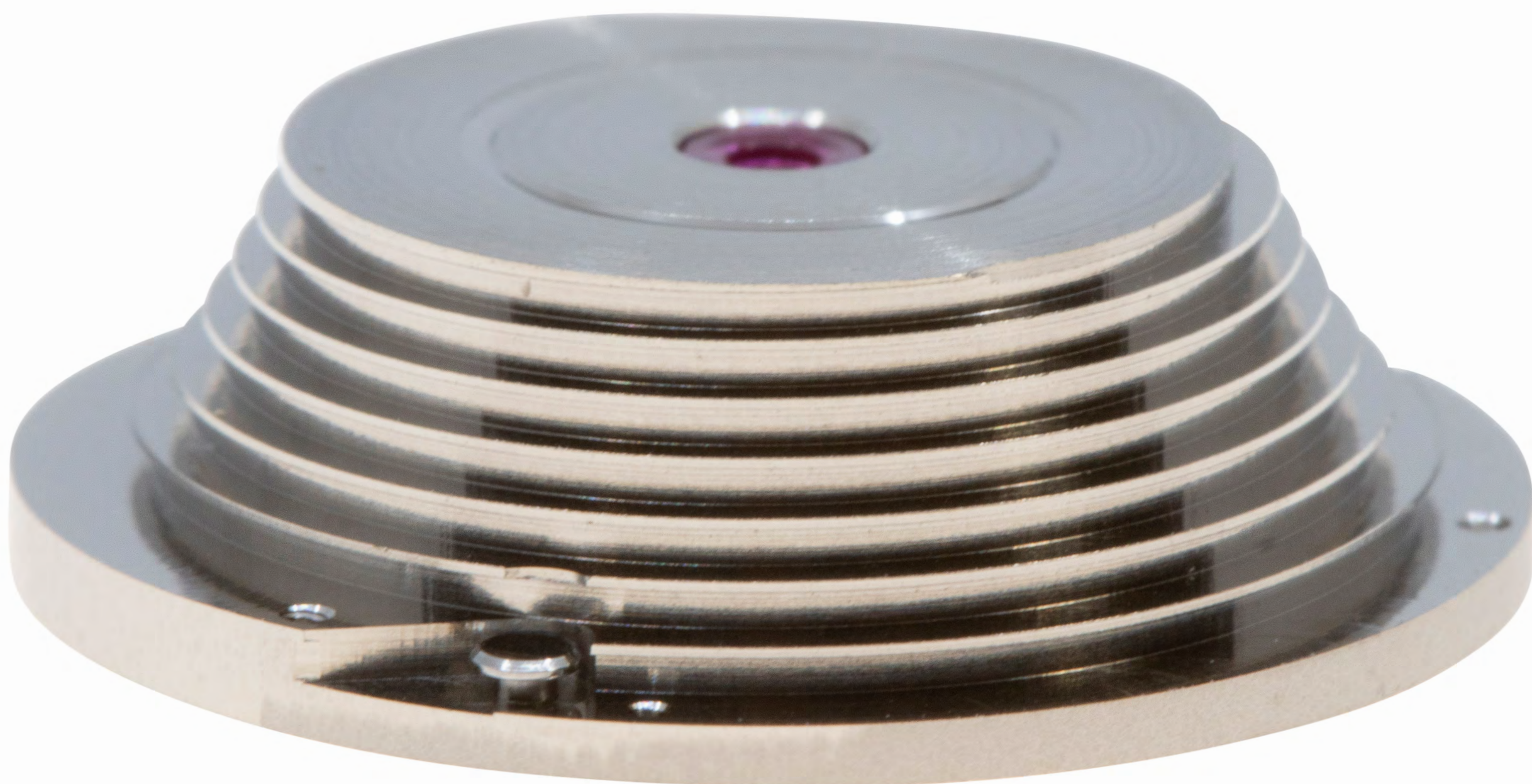
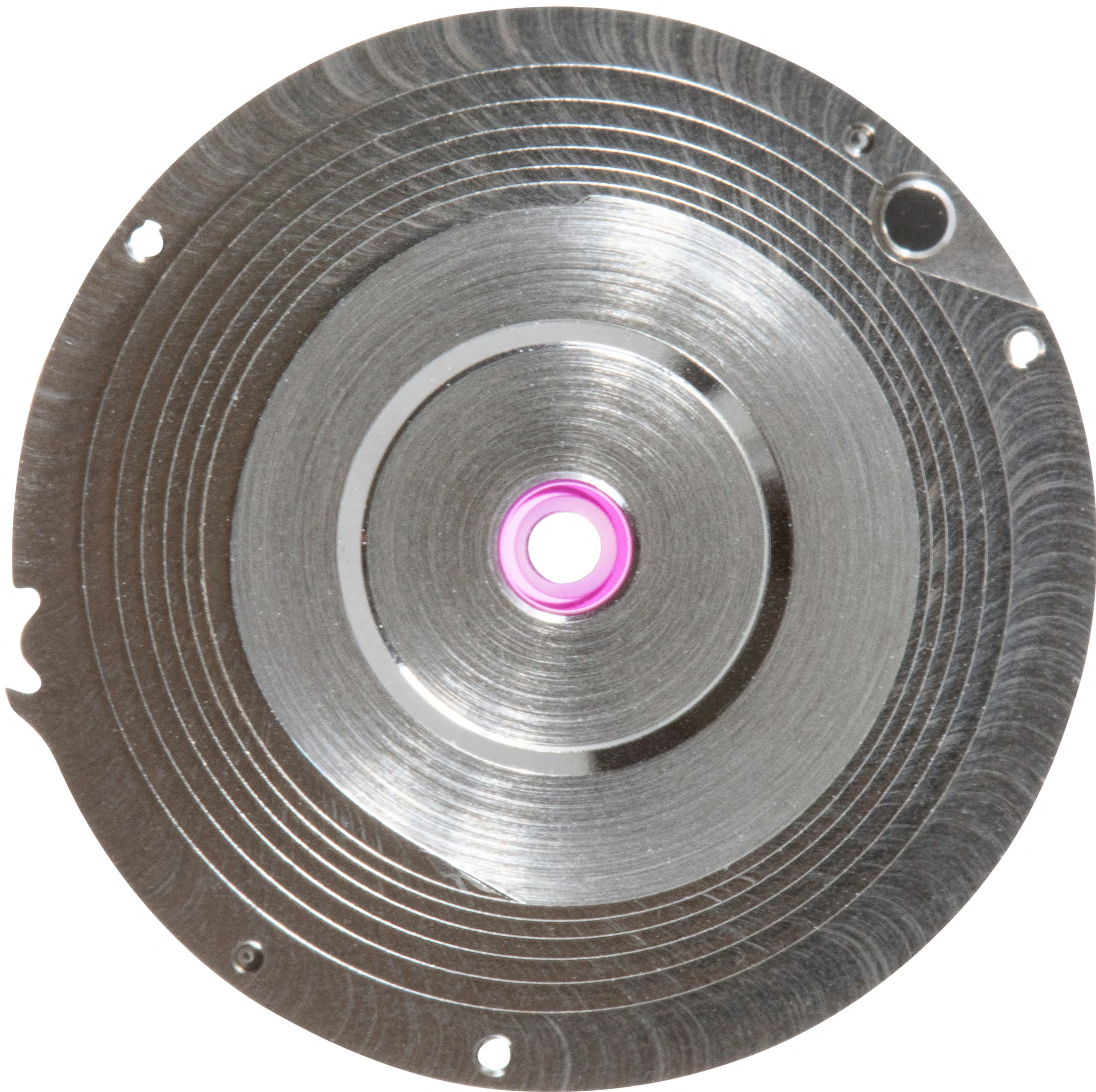




The fusee chain.

An exploded view with the barrel bridge, barrel and fusee mechanism.





The dismantled fusee.

Summary

Although leaning to a very classical design aesthetic, the execution is modern and is possibly reflective of what A.-L.Breguet himself may have made today. Respecting his original design codes of pragmatic design and symmetry, but executed using modern materials such as titanium, silicon and sapphire to an effective result.





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